



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

H-3

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,086	01/11/2006	Francois Biais	4590-475	7310
33308	7590	01/11/2007		EXAMINER
LOWE HAUPTMAN GILMAN & BERNER, LLP				NGUYEN, HANH N
1700 DIAGNOSTIC ROAD, SUITE 300				
ALEXANDRIA, VA 22314				
			ART UNIT	PAPER NUMBER
				2834
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE		DELIVERY MODE
3 MONTHS		01/11/2007		PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)
	10/564,086	BIAIS, FRANCOIS
	Examiner	Art Unit
	Nguyen N. Hanh	2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 8-16 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) ____ is/are allowed.
- 6) Claim(s) 8-16 is/are rejected.
- 7) Claim(s) ____ is/are objected to.
- 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 11 January 2006 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. ____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) Notice of Informal Patent Application
- 6) Other: ____.

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed on 1/10/2006 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document; each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. A copy of GB 2 145 882A has not been received, however, it has been considered and listed in PTO-892 form.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 8, 9 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Bansal et al.

Regarding claim 8, Bansal et al. disclose a stator (12 in Fig. 1) of an electric machine comprising: an autonomous cooling circuit (44, 46), means for sealing (26 in Fig. 2) the cooling circuit with respect to a rotor of the electric machine, a magnetic circuit comprising slots (stator slot 20), and a winding (30) arranged in the slots, wherein the sealing means comprise a fluidtight shell sandwiched in the magnetic circuit (as shown in Figs. 1 and 2, a magnetic circuit including magnetic material to accommodate flux lines from stator 12 to rotor 19 and the shell 26 is sandwich between).

Regarding claim 9, Bansal et al. disclose a stator of an electric machine wherein the shell (26 in Fig. 2) is of tubular shape and is centered around an axis of revolution of the electric machine.

Regarding claim 14, Bansal et al. disclose a stator of an electric machine wherein the shell (26) is formed by a coating (covering) of one of the stacks of laminations.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 10-13 and 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bansal et al. in view of Kikuchi et al.

Regarding claims 10 and 15, Bansal et al. show all limitations of the claimed invention except showing a stator of an electric machine wherein the magnetic circuit comprises a first stack of laminations produced outside the shell and a second stack of laminations produced inside the shell.

However, Kikuchi et al. disclose a stator of an electric machine wherein the magnetic circuit comprises a first stack of laminations (27 in Fig. 6) produced outside the shell (44) and a second stack of laminations (26) produced inside the shell for the purpose of improving cooling efficiency (abstract).

Since Bansal et al. and Kikuchi et al. are in the same field of endeavor, the purpose disclosed by Kikuchi et al. would have been recognized in the pertinent art of Bansal et al.

It would have been obvious at the time the invention was made to a person having an ordinary skill in the art to modify Bansal et al. by forming the magnetic circuit comprising a first stack of laminations produced outside the shell and a second stack of laminations produced inside the shell as taught by Kikuchi et al. for the purpose of improving cooling efficiency.

Regarding claim 11, Kikuchi et al. also disclose a stator of an electric machine wherein the first (27 in Fig. 6) and the second (27 in Fig. 6) stacks of laminations comprise slots and in that the slots of the second stack of laminations are arranged in the continuation of the slots of the first stack of laminations.

Regarding claim 12, Kikuchi et al. also disclose a stator of an electric machine wherein the winding is completely situated in the slots of the first stack of laminations.

Regarding claims 13 and 16, Kikuchi et al. also disclose a stator of an electric machine wherein the second stack of laminations comprises bridges (45) which close the slots of the second stack of laminations, the bridges being situated in the immediate vicinity of a gap of the electric machine.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hanh N Nguyen whose telephone number is (571) 272-2031. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner 's supervisor, Darren Schuberg, can be reached on (571) 272-2044. The fax phone numbers for the organization where this application or proceeding is assigned are (571) 273-8300 for regular communications and (571) 273-8300 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

HNN

December 15, 2006

